PROJECT DESCRIPTION

GENERAL

This project involves the modification of an existing Traffic Control Signal with interconnect at the intersection of US 1 and Laurel Mall Entrance / Commercial Driveway in Prince George's County. The reconstruction is due to a traffic accident. One strain pole with associated signal equipment shall be replaced. US 1 is assumed to run an north-south direction.

II. INTERSECTION OPERATION

- 1. The intersection shall continue to operate in a NEMA five-phase, semi-actuated mode, with the US 1 approaches running concurrently. An Exclusive/Permissive left turn phase shall remain in operation for northbound approach of US 1. The pedestrian phase with pushbutton actuation shall remain in operation across the south leg of US 1. The Laurel Mall Entrance / Commerical Driveway shall also continue to run concurrently.
- 2. The existing full-traffic-actuated, eight-phase controller with all necessary equipment housed in a NEMA size "6" base-mounted cabinet shall be utilized at this intersection.

III. SPECIAL NOTES

- 1. The Contractor shall be responsible for terminating all signal cables, to the appropriate terminals and shall properly label each cable.
- 2. All controller cabinet wiring will be performed by the S.H.A. Signal Shop Contact Mr. Ed Rodenhizer at (410) 787-7650 seventy-two hours in advance of intended work.
- 3. All underground and overhead utilities shown on these plans are schematic only and may not be complete. The Contractor shall be responsible for notifying Miss Utility prior to construction so that all utilities may be located in the field. If the Contractor perceives that a conflict between the utilities and the traffic signal will occur, the Contractor shall notify the Project Engineer immediately so that the conflict may be resolved.

The contact persons for District #3 (Prince George's County) are as follows:

Mr. Majid Shakib Assistant District Engineer - Traffic Phone: (301 513-7358

Mr. Ed Rodenhizer Signal Shop 410-787-7652

Sonny Bailey

410-787-7670

Sign Shop

Mr. Wayne Mowdy Assistant District Engineer - Maintenance Phone: (301) 513-7304

Mr. Augie Rebish Assistant District Engineer - Utility Phone: (301) 513-7350

Mr. Richard L. Daff, Sr. Chief, Traffic Operations Division Phone: (410) 787-7630

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY S.H.A..

THERE IS NO EQUIPMENT TO BE SUPPLIED BY THE SHA.

EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

ITEM NO.	DESCRIPTION	QUANTITY	
1001	Maintenance of traffic per assignment.	1 EA	
2002	Test pit excavation	1 C.Y.	
8001	Furnish and install concrete for signal foundation.	5 C.Y.	
8020	Remove & dispose of equipment (per assignment). (includes removal of temporary back guys).	1 EA	
8030	Furnish and install No. 6 AWG stranded bare copper ground wire.	15 L.F.	
8034	Furnish and install 3" schedule 80 rigid polyvinyl chloride conduit - bored.	15 L.F.	
8036	Furnish and install 3" schedule 80 rigid polyvinyl chloride conduit - trenched.	1,0 L.F.	
8050	Furnish and install electrical handhole	1 EA	
8059	Furnish and install ground rod - 3/4"dia. x 10' length	1 EA	
8064	Furnish and install 2 conductor electrical cable (alum. shielded)	455 L.F.	
8065	Furnish and install electrical cable – 2 conductor (No. 14 AWG).	330 L.F.	

EQUIPMENT LIST (CONT.)

R3-5R "RIGHT TURN ONLY"

R3-6 "LEFT TURN AND

Relocate opticom detector eye.

wire mounted.

mounted.

sign, $(30" \times 36")$ span wire

R3-5L "LEFT TURN ONLY" sign, (30" x 36") span wire

THRU" sign, $(30" \times 6")$ span

1 EA

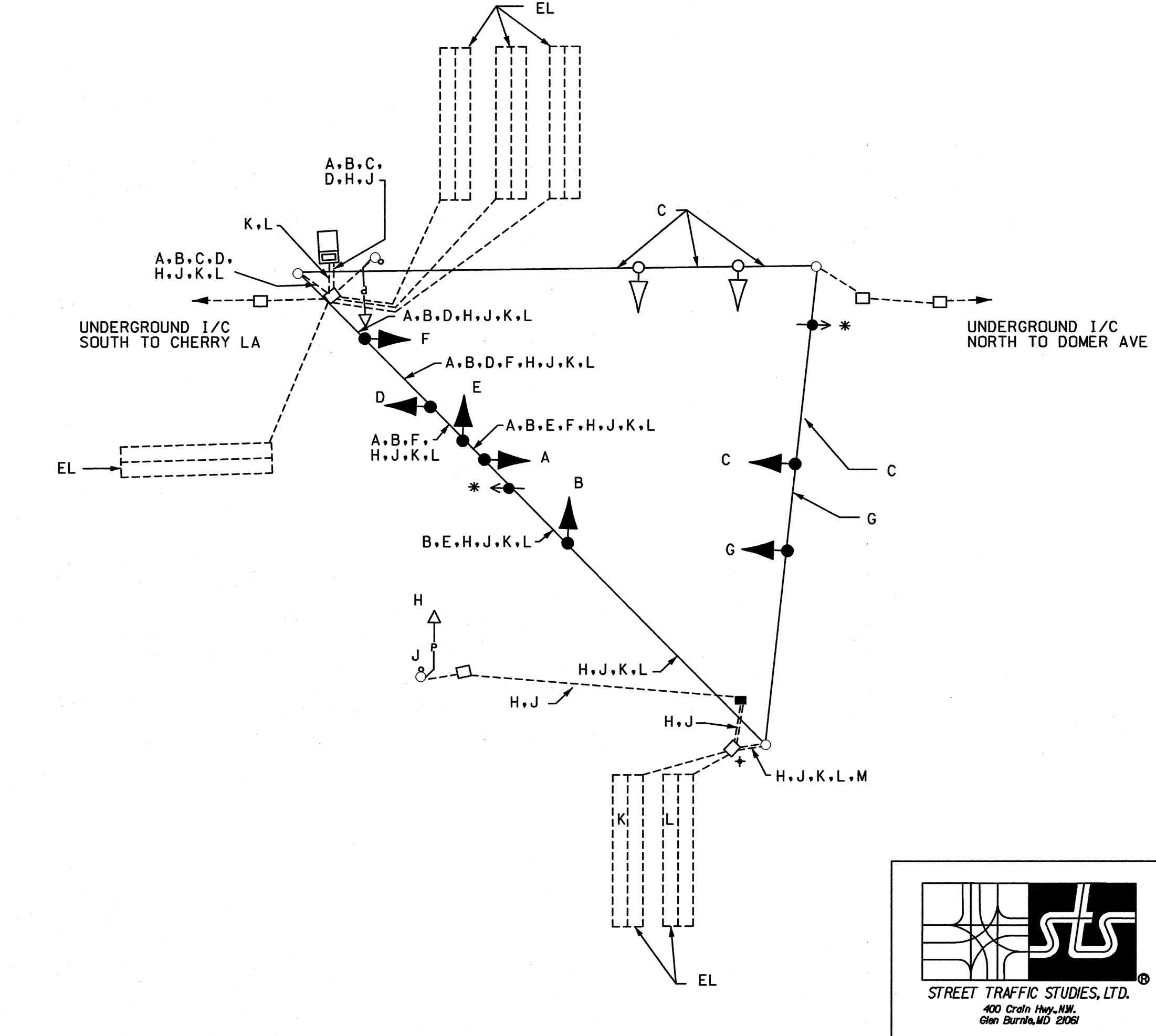
1 EA

1 EA

2 EA

В.	EQUIPMENT TO BE FURNISHED AND/OR INS	STALLED BY THE CONTRACTOR.							4							
ITEM NO.	DESCRIPTION						PH	<u>HASE</u>	<u> </u>	HAR		5				
NO•	DESCRIPTION	QUANTITY		1 (AY-)(R)	2 (R)	3 (R)	4 (R)	5 (R)	6 (R)	7 (R)	8 R	9 (R)	10	11		
cable	Furnish and install electrical cable - 5 conductor	455 L.F.			QY R Y QG G	(R) (Y-(Y) (16-(G)	(R) (Y)	(R) (Y)	(R) (Y)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y)	(M)	P	
	(No. 14 AWG).		PHASE 1 & 6	⊲G-G	⊲G-G	G	R	R	R	R	R	R	DW	DW	子月	
,	Furnish and install electrical cable - 7 conductor (No. 14 AWG).	545 L.F.	1 CHANGE	⊲Y-G	⊲Y-G	G	R	R	R	R	R	R	DW	DW		
			PHASE 2 & 6	G	G	G	G	G	R	R	R	R	DW	DW <	1——	
8074	Furnish and install steel span wire -1/4dia.	250 L.F.	2 & 6 CHANGE	Υ	Υ	Υ	Υ	Υ	R	R	R	R	DW	DW -	—— D	
			PHASE 4 & 8	R	R	R	R	R	G	G	G	G	DW	DW		
8075	Furnish and install steel span wire —3/8dia.	250 L.F.	4 & 8 CHANGE	R	R	R	R	R	Y	Y	Y	Y	DW	DW	4	
			PHASE 4 ALT. & 8		R	R	R	R	G	G	G	G	WK	WK	AT H	
8080	Furnish and install 12" vehicular LED signal head section. (BLACK FACED)	22 EA	PED CLEAR	R	R	R	R	R	G	G	G	G		FL/DW		
			4 ALT.& 8 CHANGE	R	R	R	R	R	Y	<u> </u>	Y	Y	DW	DW -	\	
			PRE-EMPTION	G	G	G	G	G	R	R	R	R		DW		
	Furnish and install 8" vehicular LED signal head section. (BLACK FACED)	3 EA FLAS	CHANGE	Υ	Y	Υ	Y	Υ .	R	R	R	R	DW	DW		
			FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	DARK	DARK	1 T T T T T T T T T T T T T T T T T T T	
8085	Back guy tender	2 EA									•					
9063	12" x 32' steel strain pole (2½" x 72" anchor bolts included)	1 EA														
9090	Sheet aluminum signs to consist of:	22.5 SF										·				

WIRING DIAGRAM





- B | 7-CONDUCTOR ELECTRICAL C | CABLE (NO. 14 A.W.G)
- F | 5-CONDUCTOR ELECTRICAL G | CABLE (NO. 14 A.W.G)
- 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G)
- 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G) ALUMINUM SHIELDED
- M STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
- EL-LOOP WIRE (NO. 14 A.W.G.) EXISTING
- * USE EXISTING OPTICOM CABLE

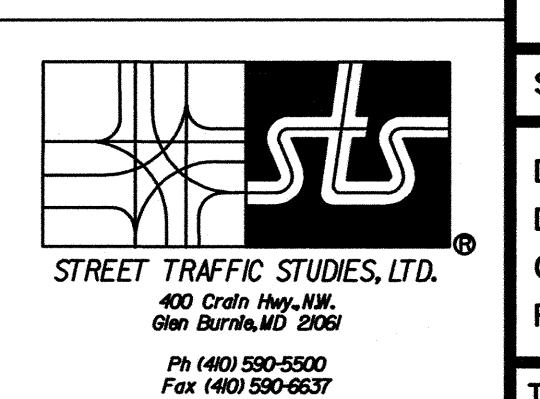


+ - GROUND ROD

STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION

AND LAUREL MALL ENTRANCE

TOD NO.



SCALE NONE DATE 7-28-05 CONTRACT NO.

CHECKED BY F.A.P. NO.

COUNTY PRINCE GEORGE'S CO. TIMS NO.

TS NO. 1629E

SHEET NO. 2 OF

PLOTTED: \$DATETIME\$
FILE: \$FILE\$